



Note: Club Tips

- Last one to leave, please lock the gate.
- Safety at the air-field is the responsibility of all members.
- Use a restraining device for your plane on the flight line
- Do not fly over the flight line
- Watch for others landing and taking off

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Meeting Minutes from June 1st, 2005

- NJ Pine Barons R/C Club, Location: Airport Hobbies, Website: www.njpinebarons.com
- Meeting ran by: Harry Minnier
- Members Attending: 20
- Meeting called to order: 7:35pm – adjourned: 8:20pm
- Treasurer Report: Jerome Gayster reported after deducting expenses and adding income from membership dues for April, our checkbook balance is \$5,899.19. Two notable expenses were our contribution to the American Cancer Society and the 22 tons of stone.
- Membership Count: To date we have 178 members enrolled for 2005. Please remember that if you have not paid your dues as of Feb 1st, 2005 you are not counted as a NJPB club member.....
- The Club will be ordering more caps... Stay tuned for delivery.....
- Field Marshal Report: All good. Our field is looking good.....
- Safety Report: Please remember to stand behind the fences when you fly, announce when you are going onto the field; think safety..... :)
- If you're a new member please pick up your "New Member Package" at the Airport Hobby store.
- **Our Donation to Cancer Fund:** Kate reported on the donation of \$100 to the Relay of Life - American Cancer Society. She thanked us for our donation and reported that her team raised \$1,100 for the cancer fund.
- 50/50 winner was Don Gwrits \$31.00
- Our June fun fly was a great time, thanks to all that helped and can out to fly....



2005 NJPB Officials

Pres:	Harry Minnier	609-268-9373
VP:	Luke Kociuba	856-235-5261
	Steve Dodds	609-238-6499
	Tom Perkins	856-235-3487
Tres & Mem:	Jerry Gayster	609-267-5620
Sec:	Tony Gallo	609-654-9378
Fld Mar:	All Members	
Flight Safety:	Glen Grulke	609-352-0022
Sun Club:	Al Gatto	215-579-8619
Editor:	Glen Grulke	609-352-0022



Newsletter News

- If you would like to **submit** any comments, flying tricks or tips, for sale item, fun fly data, special event or any other data please email me @tacomadm18@comcast.net with the subject of NJPB info. If you do not have email you can send it through the mail, my address is: Glen Grulke, 126 Preamble Dr Marlton, NJ 08053

Special Thanks

Thanks to; Airport Hobbies for hosting the meeting

Thanks to; Tony for picking up the donuts

Thanks to; Beth for cooking at our fun fly

Thanks to; All that participated at the fun fly

Thanks to; All that mow and help with the up keep of the field

The President's Corner (Harry)

Our *Cleanup and Fix-up day* on May 21st was well attended and 22 ton of stone was spread in the parking area and at the gate entrances to the pit areas. Weed killer was applied along the fence areas and trash removed. We all enjoyed a light lunch provided by the club and prepared by Beth Moore. I want to personally thank all those who helped in this effort. A job well done!

The *Fun Fly and Picnic* on Saturday June 4th started out with a light rain on my way to the field, but by the time I got there it had stopped. It turned out to be a good day for flying, not much wind and temperature in the mid seventies. Some of the events were: A Balloon Burst, Spot Landing, Ground Weaving through cones, Limbo (most did it inverted), 2 Rolls & 2 Loops and Land and a spot landing contest. All Club Members were asked to sign the registry and by so doing received a ticket for the raffle. If you entered any of the contests you also recv'd an additional ticket. We gave away \$200 in prizes and a Dazzler ARF Kit donated by the Airport Hobby store. If you missed this show – shame on you; it was perfect flying weather. You also missed the hot dogs, hamburgers, baked beans, pork sandwiches, salad, cucumber salad, potato salad, chips, cake, brownies, cookies, ice tea and all kinds of soda. I'm sure there was more than this but that's all I can remember that *I had*.

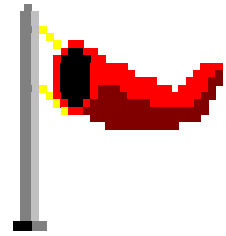
Thanks to all who made this event possible, it was GREAT.

Well, if you missed this Fun Fly and picnic, be sure to read the newsletters for our next Fun Fly and picnic coming up in early August.

Evening flying is continuing and the special interest group for Combat on Tuesday evening and for Electrics on Wednesday evening. Come on out and fly or just come out and watch the show. Some time has been reserved for *other* flying as well, so bring something to fly.

Harry

PS ... Remember to keep your words soft and sweet, just in case you have to eat them



*Let's keep the
Show and Tell
going. Please bring
in your project.*

Up Coming Events in our Area

- War Birds over Delaware—Lums Pond State Park July 7th –10th
- War Birds over New Jersey—Sept 17th and 18th
- Helis over Delaware—Lums Pond July 22nd—July 4th
- NJ Pine Barons Fun Fly– Aug, Sept timeframe
- Heli Fun fly—Sept 3rd –Sept 4th Atlantic City Area



Basics of choosing a motor and ESC/MS and Brushed vs. Brushless Systems” by Alex Berman

There are always a ton of threads about motors and ESCs and they are all usually variants on the same questions. In this article I will go through and explain the basics of choosing a motor and ESC/MS, and talk about brushed vs. brushless systems.

When choosing a motor it is important to choose one that meets your abilities and budget. The first thing to consider when buying a motor is how fast you realistically want the car to go. I know you all want your cars going 50mph, but there are only a few of us who have enough driving experience to go that fast without hitting straight into a wall. The basics on turns and winds are as follows:

Lower Turn = Higher Top End/Less Torque
Higher Turn = Lower Top End/More Torque

As you look at motors with lower winds, you begin to see motors like a 9x3. This means that the motor is 9 turns and has 3 winds. The winds are simply for more speed, the more you have, the faster you go. One thing to note about lower turn motors is that they need a lot more maintenance. You can probably run a stock motor (27T) for 15-20 runs before it needs to have the commutator cut. On the other hand, a 9T motor needs to be cut every 3-5 runs.

There are a few classes for brushed motors:

Stock (27 Turn)
19T Spec (19 Turn)
Unlimited (Any amount of turns)

Your hobby shop or race track may have others, but these are the common ones.

Choosing whether to get an ESC or MSC is an easy decision. Get an ESC. MSCs (Mechanical Speed Controls) are very outdated and cannot handle today's motors.

When choosing an ESC you truly have to rate your skill level. While you may have a 19 Turn motor today, will you be changing to an 8 Turn motor soon? The answer is probably not. An ESC's limit is the lowest number of turns that it can handle. Now you have to make a big decision. Since ESCs that can handle lower turn motors are more expensive, you will have to decide how low you're gonna go. It makes no sense to buy an ESC with no turn limits if you are going to race Stock and 19 Spec, nor does it make sense to buy an ESC with a 17T limit if you are going to race Unlimited. This is basically up to you (and your budget), but be reasonable and get an ESC with a limit that is around your skill level.

My final rant will be on brushed vs. brushless. While these systems are in relatively the same price range, they each have their own pros and cons. A brushed system needs a lot of maintenance, but offers more flexibility because you can change motors depending on track conditions (how much torque you need). A brushless system on the other hand, needs almost no maintenance.

There are two basic decisions you need to make when buying a brushless system. How much can you afford to spend and how many transmission gears you want to replace. The Novak systems are more affordable, ranging from about \$180-210 and include both a motor and ESC. The next level up would be a Warrior/Feigao combo which will be about \$250 and will have more power and a nicer ESC. The highest level of brushless are the Hackers, Lehnrs, and Shulze. These are not for novices, and must be geared almost perfectly. These systems can range from about \$400-800 for just a motor and ESC. Also note that the Novak and Warrior/Feigao combos offer better customer support and are easier to get.

I hope this article has answered most of your questions about motors and ESCs. Good luck, and have fun!

End